Lesson 27 • Multiples • Least Common Multiple • Equivalent Division Problems

Power Up

– ***Facts***

– ***Mental Math***

– ***Problem Solving***

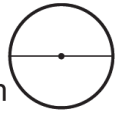
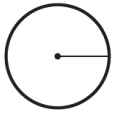
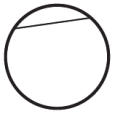
New Concepts

– ***Examples***

– ***Practice Set***

Written Practice

Facts Write the word or words to complete each definition.

The distance around a circle is its  circumference.	Every point on a circle is the same distance from its  center.	The distance across a circle through its center is its  diameter.	The distance from a circle to its center is its  radius.
Two or more circles with the same center are  concentric circles.	A segment between two points on a circle is a  chord.	Part of a circumference is an  arc.	Part of a circle bounded by an arc and two radii is a  sector.
Half a circle is a  semicircle.	An angle whose vertex is the center of a circle is a  central angle.	An angle whose vertex is on the circle whose sides include chords is an  inscribed angle.	A polygon whose vertices are on the circle and whose edges are within the circle is an  inscribed polygon.

Written Practice

1. 11,123 + 7416 + 8449 = *P;* 26,988

2. 6 · 12 = *I;* 72 inches

3. $0.15 per egg; Some equivalent division problems:$0.90 ÷ 6 = $0.15 $0.60 ÷ 4 = $0.15 $0.45 ÷ 3 = $0.15 $0.30 ÷ 2 = $0.15

4. C

5. a. 267 students

b. 445 students

6. a. 9 in.

b. 54 in.²

7. 225

8. 3500

9. a. $\frac{6}{25}$

b. $\frac{1}{5}$

10. a. 70°F

b. 110°F

c. We needed to know the freezing point (32°F) and boiling point (212°F) of water.

Written Practice *continued*

11. a. $\frac{15}{36}$

b. $\frac{6}{36}$

c. $\frac{28}{36}$

12. a. $2^6 \cdot 3^2$

b. 24

13. $\frac{\overset{5}{\cancel{35}}}{\underset{1}{\cancel{6}}} \times \frac{\overset{8}{\cancel{48}}}{\underset{1}{\cancel{7}}} = 40$

14. a. obtuse angle

b. $\overline{AB}$ (or $\overline{BA}$) and $\overline{ED}$ (or $\overline{DE}$)

15. a. $\frac{1}{2}$

b. $\frac{1}{2}$

c. $\frac{1}{2}$

16. a. 18 ft

b. 18 ft²

17. 36°

18. 128

19. $3\frac{3}{4}$

20. 11

21. $8\frac{2}{5}$

22. 8

23. 4

24. $1\frac{3}{4}$

25. $\frac{3}{8}$

Written Practice *continued*

26. $\frac{2}{3}$

27. 9 inches

28. 75¢

29. a. 20 in.

b. 16 in.^{2}

30. a. $\overline{CB}$ or $\overline{BC}$

b. $\overline{AB}$ or $\overline{BA}$

c. $\angle AMC$ or $\angle CMA$

d. $\angle ABC$ (or $\angle CBA$, $\angle ABM$, or $\angle MBA$) and $\angle BAM$ (or $\angle MAB$)

e. $\overline{MA}$ (or $\overline{AM}$) and $\overline{MB}$ (or $\overline{BM}$)